

TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT.



	Dr. Vinay Chopr MD (Pathology & Micr Chairman & Consultar	icrobiology) MD (Pathology)			()
AGE/ GENDER: 6COLLECTED BY:REFERRED BY:BARCODE NO.: 0CLIENT CODE.: K	Ir. RAKESH RAGTOGI 8 YRS/MALE 1514978 OS DIAGNOSTIC LAB 349/1, NICHOLSON ROAD, AMB	ALA CANT	PATIENT ID REG. NO./LAB NO. REGISTRATION DA COLLECTION DATE REPORTING DATE	TE : 13/Au : 13/Au	199 08130009 1g/2024 08:38 AM 1g/2024 11:08AM 1g/2024 09:08AM
Test Name		Value	Unit		Biological Reference interval
	SWAS ⁻	THYA W	ELLNESS PANEL:	1.2	
	COM	IPLETE BI	LOOD COUNT (CBC))	
RED BLOOD CELLS (RBCS)) COUNT AND INDICES				
HAEMOGLOBIN (HB)		13.2	gm/	dL	12.0 - 17.0
<i>by CALORIMETRIC</i> RED BLOOD CELL (RBC) C	OUNT	4.54	Milli	ons/cmm	3.50 - 5.00
by HYDRO DYNAMIC FOCU	SING, ELECTRICAL IMPEDENCE	10.4	%		40.0 - 54.0
PACKED CELL VOLUME (P by CALCULATED BY AUTO	GV) MATED HEMATOLOGY ANALYZER	40.6	70		40.0 - 54.0
MEAN CORPUSCULAR VC	DLUME (MCV) mated hematology analyzer	89.5	fL		80.0 - 100.0
MEAN CORPUSCULAR HA	EMOGLOBIN (MCH)	29	pg		27.0 - 34.0
-	MATED HEMATOLOGY ANALYZER MOGLOBIN CONC. (MCHC)	32.4	g/dL		32.0 - 36.0
by CALCULATED BY AUTO	MATED HEMATOLOGY ANALYZER		· · ·		
RED CELL DISTRIBUTION by CALCULATED BY AUTOR	WIDTH (RDW-CV) MATED HEMATOLOGY ANALYZER	14.5	%		11.00 - 16.00
RED CELL DISTRIBUTION		48.5	fL		35.0 - 56.0
MENTZERS INDEX	MATED HÉMATOLOGY ANALYZER	19.71	RAT	10	BETA THALASSEMIA TRAIT: < 13.0
		00 51		10	IRON DEFICIENCY ANEMIA: >13.0
GREEN & KING INDEX by calculated		28.51	RAT	10	BETA THALASSEMIA TRAIT: < = 65.0
					IRON DEFICIENCY ANEMIA: > 65.0
WHITE BLOOD CELLS (W					
TOTAL LEUCOCYTE COUN by FLOW CYTOMETRY BY S		5320	/cmi	m	4000 - 11000
NUCLEATED RED BLOOD		NIL			0.00 - 20.00
NUCLEATED RED BLOOD	CELLS (nRBCS) % mated hematology analyzer &	NIL	%		< 10 %



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY)

DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

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Dr. Yugam Chopra

MD (Pathology & Microbiology) MD (Pathology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** NAME : Mr. RAKESH RAGTOGI **AGE/ GENDER** : 68 YRS/MALE **PATIENT ID** :1578999 **COLLECTED BY** :012408130009 REG. NO./LAB NO. **REFERRED BY REGISTRATION DATE** : 13/Aug/2024 08:38 AM **BARCODE NO.** :01514978 **COLLECTION DATE** :13/Aug/202411:08AM CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE** :13/Aug/2024 09:08AM **CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Test Name Value Unit **Biological Reference interval DIFFERENTIAL LEUCOCYTE COUNT (DLC) NEUTROPHILS** 57 50 - 70 % by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY LYMPHOCYTES 32 % 20 - 40 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY % EOSINOPHILS 1-6 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY MONOCYTES 10 % 2 - 12 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY BASOPHILS 0 % 0 - 1 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LEUKOCYTES (WBC) COUNT ABSOLUTE NEUTROPHIL COUNT 3032 2000 - 7500 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE LYMPHOCYTE COUNT 1702 800 - 4900 /cmm by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE EOSINOPHIL COUNT 53 /cmm 40 - 440 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY ABSOLUTE MONOCYTE COUNT 532 /cmm 80 - 880 by FLOW CYTOMETRY BY SF CUBE & MICROSCOPY PLATELETS AND OTHER PLATELET PREDICTIVE MARKERS. PLATELET COUNT (PLT) 210000 /cmm 150000 - 450000 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE 0.22 % PLATELETCRIT (PCT) 0.10 - 0.36 by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

10

63000

29.9

16.6

Dr. Vinay Chopra



MEAN PLATELET VOLUME (MPV)

PLATELET LARGE CELL COUNT (P-LCC)

PLATELET LARGE CELL RATIO (P-LCR)

PLATELET DISTRIBUTION WIDTH (PDW)

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE

by HYDRO DYNAMIC FOCUSING, ELECTRICAL IMPEDENCE NOTE: TEST CONDUCTED ON EDTA WHOLE BLOOD

DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS , MD (PATHOLOGY)

fL

%

%

/cmm

6.50 - 12.0

11.0 - 45.0

15.0 - 17.0

30000 - 90000



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	Dr. Vinay Cł MD (Pathology & Chairman & Cor			(Pathology)
AME	: Mr. RAKESH RAGTOGI			
GE/ GENDER	: 68 YRS/MALE		PATIENT ID	: 1578999
OLLECTED BY	:		REG. NO./LAB NO.	: 012408130009
EFERRED BY	:		REGISTRATION DATE	: 13/Aug/2024 08:38 AM
ARCODE NO.	:01514978		COLLECTION DATE	: 13/Aug/2024 11:08AM
LIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 13/Aug/2024 09:35AM
LIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANT	Г	
est Name		Value	Unit	Biological Reference interval
	ERYTI	HROCYTE SED	IMENTATION RATE (ESI	R)
	MENTATION RATE (ESR) RGREN AUTOMATED METHOD	14	mm/1st h	r 0-20
s C-reactive protein . This test may also ystemic lupus eryth ONDITION WITH LO low ESR can be see polycythaemia), sig s sickle cells in sickl IOTE: . ESR and C - reactiv . Generally, ESR doe . CRP is not affected . If the ESR is elevat . Women tend to ha . Drugs such as dext	be used to monitor disease active ematosus W ESR en with conditions that inhibit th nificantly high white blood cell c le cell anaemia) also lower the f re protein (C-RP) are both market es not change as rapidly as does I by as many other factors as is ES red, it is typically a result of two ave a higher ESR, and menstruation	vity and response e normal sedime ount (leucocytos SR. cs of inflammatio CRP, either at the SR, making it a be types of proteins on and pregnanc	e to therapy in both of the al ntation of red blood cells, su is) , and some protein abnor n. e tart of inflammation or as etter marker of inflammation s, globulins or fibrinogen. y can cause temporary eleva	





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DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)







	Dr. Vinay Cl MD (Pathology & Chairman & Cor		Dr. Yugan MD CEO & Consultant	(Pathology)
NAME	: Mr. RAKESH RAGTOGI			
AGE/ GENDER	: 68 YRS/MALE	PAT	TIENT ID	: 1578999
COLLECTED BY	:	REC	G. NO./LAB NO.	: 012408130009
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BARCODE NO.	: 01514978	COI	LECTION DATE	: 13/Aug/2024 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REF	PORTING DATE	: 13/Aug/2024 09:40AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
	CLIN	UCAL CHEMISTR	//BIOCHEMISTR	Y
	CLIN	ICAL CHEIMISTR		-
	CLIN	GLUCOSE FA		

A fasting plasma glucose level below 100 mg/dl is considered normal.
 A fasting plasma glucose level between 100 - 125 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A fasting plasma glucose level of above 125 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients.
 A fasting plasma glucose level in excess of 125 mg/dl on both occasions is confirmatory for diabetic state.





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COLLECTED BY	:		REG. NO./LAB NO.	: 012408130009
REFERRED BY	:		REGISTRATION DATE	: 13/Aug/2024 08:44 AM
BARCODE NO.	:01514978		COLLECTION DATE	: 13/Aug/2024 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB		REPORTING DATE	: 13/Aug/2024 11:43AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
		GLUCOSE POS	T PRANDIAL (PP)	
GLUCOSE POST PRA	NDIAL (PP): PLASMA e - peroxidase (god-pod)	125.03	mg/dL	NORMAL: < 140.00 PREDIABETIC: 140.0 - 200.0

INTERPRETATION

IN ACCORDANCE WITH AMERICAN DIABETES ASSOCIATION GUIDELINES:

A post-prandial plasma glucose level below 140 mg/dl is considered normal.
 A post-prandial glucose level between 140 - 200 mg/dl is considered as glucose intolerant or prediabetic. A fasting and post-prandial blood test (after consumption of 75 gms of glucose) is recommended for all such patients.
 A post-prandial plasma glucose level of above 200 mg/dl is highly suggestive of diabetic state. A repeat post-prandial is strongly recommended for all such patients. A fasting plasma glucose level of above 200 mg/dl is necess of 125 mg/dl on both occasions is confirmatory for diabetic state.



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NAME :	Dr. Vinay Ch MD (Pathology & Chairman & Cor			(Pathology)
NAME :			CEO & Consultant	Pathologist
COLLECTED BY:REFERRED BY:BARCODE NO.:CLIENT CODE.:	Mr. RAKESH RAGTOGI 68 YRS/MALE 01514978 KOS DIAGNOSTIC LAB 6349/1, NICHOLSON ROAD,	REG. N REGIS COLLI REPO	ENT ID NO./LAB NO. STRATION DATE ECTION DATE RTING DATE	: 1578999 : 012408130009 : 13/Aug/2024 08:38 AM : 13/Aug/2024 11:08AM : 13/Aug/2024 10:11AM
Test Name		Value	Unit	Biological Reference interval
		LIPID PROFILE	· BASIC	
CHOLESTEROL TOTAL: S by CHOLESTEROL OXIDA		130.55	mg/dL	OPTIMAL: < 200.0 BORDERLINE HIGH: 200.0 - 239. HIGH CHOLESTEROL: > OR = 240
TRIGLYCERIDES: SERUN by GLYCEROL PHOSPHAT	N TE OXIDASE (ENZYMATIC)	79.99	mg/dL	OPTIMAL: < 150.0 BORDERLINE HIGH: 150.0 - 199 HIGH: 200.0 - 499.0 VERY HIGH: > OR = 500.0
HDL CHOLESTEROL (DIR by SELECTIVE INHIBITION		28.78 ^L	mg/dL	LOW HDL: < 30.0 BORDERLINE HIGH HDL: 30.0 - 60.0 HIGH HDL: > OR = 60.0
LDL CHOLESTEROL: SER by CALCULATED, SPECTR		85.77	mg/dL	OPTIMAL: < 100.0 ABOVE OPTIMAL: 100.0 - 129.0 BORDERLINE HIGH: 130.0 - 159 HIGH: 160.0 - 189.0 VERY HIGH: > OR = 190.0
NON HDL CHOLESTEROI by CALCULATED, SPECTR		101.77	mg/dL	OPTIMAL: < 130.0 ABOVE OPTIMAL: 130.0 - 159.0 BORDERLINE HIGH: 160.0 - 189 HIGH: 190.0 - 219.0 VERY HIGH: > OR = 220.0
VLDL CHOLESTEROL: SE		16	mg/dL	0.00 - 45.00
TOTAL LIPIDS: SERUM		341.09 ^L	mg/dL	350.00 - 700.00
CHOLESTEROL/HDL RAT by CALCULATED, SPECTI	TIO: SERUM	4.54 ^H	RATIO	LOW RISK: 3.30 - 4.40 AVERAGE RISK: 4.50 - 7.0 MODERATE RISK: 7.10 - 11.0 HIGH RISK: > 11.0
LDL/HDL RATIO: SERUN by CALCULATED, SPECTR		2.98	RATIO	LOW RISK: 0.50 - 3.0 MODERATE RISK: 3.10 - 6.0 HIGH RISK: > 6.0

KOS Diagnostic Lab (A Unit of KOS Healthcare)

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		Chopra y & Microbiology) Consultant Pathologist	Dr. Yugam MD CEO & Consultant	(Pathology)
NAME	: Mr. RAKESH RAGTOGI			
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BARCODE NO.	: 01514978	COLLI	ECTION DATE	: 13/Aug/2024 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 13/Aug/2024 10:11AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROA	AD, AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval
TRIGLYCERIDES/HD		2.78 ^L	RATIO	3.00 - 5.00

INTERPRETATION:

1. Measurements in the same patient can show physiological analytical variations. Three serial samples 1 week apart are recommended for Total Cholesterol, Triglycerides, HDL & LDL Cholesterol.

2. As per NLA-2014 guidelines, all adults above the age of 20 years should be screened for lipid status. Selective screening of children above the age of 2 years with a family history of premature cardiovascular disease or those with at least one parent with high total cholesterol is recommended.

3. Low HDL levels are associated with increased risk for Atherosclerotic Cardiovascular disease (ASCVD) due to insufficient HDL being available to participate in reverse cholesterol transport, the process by which cholesterol is eliminated from peripheral tissues. 4. NLA-2014 identifies Non HDL Cholesterol (an indicator of all atherogeniclipoproteins such as LDL, VLDL, IDL, Lpa, Chylomicron remnants) along with LDL-cholesterol as co- primary target for cholesterol lowering therapy. Note that major risk factors can modify treatment goals for LDL & Non HDL

5. Additional testing for Apolipoprotein B, hsCRP,Lp(a) & LP-PLA2 should be considered among patients with moderate risk for ASCVD for risk refinement



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Unit

Dr. Yugam Chopra MD (Pathology)

:1578999

:012408130009

: 13/Aug/2024 08:38 AM

:13/Aug/2024 11:08AM

:13/Aug/2024 10:12AM

Biological Reference interval

Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist **CEO & Consultant Pathologist** : Mr. RAKESH RAGTOGI AGE/ GENDER : 68 YRS/MALE **PATIENT ID COLLECTED BY** REG. NO./LAB NO. : **REFERRED BY REGISTRATION DATE** : **BARCODE NO.** :01514978 **COLLECTION DATE** CLIENT CODE. : KOS DIAGNOSTIC LAB **REPORTING DATE CLIENT ADDRESS** : 6349/1, NICHOLSON ROAD, AMBALA CANTT Value

LIVE	R FUNCTION TEST	(COMPLETE)	
BILIRUBIN TOTAL: SERUM by diazotization, spectrophotometry	0.48	mg/dL	INFANT: 0.20 - 8.00 ADULT: 0.00 - 1.20
BILIRUBIN DIRECT (CONJUGATED): SERUM by DIAZO MODIFIED, SPECTROPHOTOMETRY	0.17	mg/dL	0.00 - 0.40
BILIRUBIN INDIRECT (UNCONJUGATED): SERUM by CALCULATED, SPECTROPHOTOMETRY	0.31	mg/dL	0.10 - 1.00
SGOT/AST: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	20.2	U/L	7.00 - 45.00
SGPT/ALT: SERUM by IFCC, WITHOUT PYRIDOXAL PHOSPHATE	19.9	U/L	0.00 - 49.00
AST/ALT RATIO: SERUM by Calculated, spectrophotometry	1.02	RATIO	0.00 - 46.00
ALKALINE PHOSPHATASE: SERUM by PARA NITROPHENYL PHOSPHATASE BY AMINO METHYL PROPANOL	116.92	U/L	40.0 - 130.0
GAMMA GLUTAMYL TRANSFERASE (GGT): SERUM by szasz, spectrophtometry	17.95	U/L	0.00 - 55.0
TOTAL PROTEINS: SERUM by BIURET, SPECTROPHOTOMETRY	6.14 ^L	gm/dL	6.20 - 8.00
ALBUMIN: SERUM by BROMOCRESOL GREEN	3.93	gm/dL	3.50 - 5.50
GLOBULIN: SERUM by calculated, spectrophotometry	2.21 ^L	gm/dL	2.30 - 3.50
A : G RATIO: SERUM by calculated. Spectrophotometry	1.78	RATIO	1.00 - 2.00

by CALCULATED, SPECTROPHOTOMETRY

INTERPRETATION

NOTE:- To be correlated in individuals having SGOT and SGPT values higher than Normal Referance Range. USE: - Differential diagnosis of diseases of hepatobiliary system and pancreas.

INCREASED:

DRUG HEPATOTOXICITY	> 2
ALCOHOLIC HEPATITIS	> 2 (Highly Suggestive)
CIRRHOSIS	1.4 - 2.0
INTRAHEPATIC CHOLESTATIS	> 1.5
HEPATOCELLULAR CARCINOMA & CHRONIC HEPATITIS	> 1.3 (Slightly Increased)





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NAME

Test Name





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NAME	: Mr. RAKESH RAGTOGI			
AGE/ GENDER	: 68 YRS/MALE	PATI	ENT ID	: 1578999
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BARCODE NO.	: 01514978	COLL	ECTION DATE	: 13/Aug/2024 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPO	RTING DATE	: 13/Aug/2024 10:12AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD,	AMBALA CANTT		
Test Name		Value	Unit	Biological Reference interval

DECREASED:

1. Acute Hepatitis due to virus, drugs, toxins (with AST increased 3 to 10 times upper limit of normal)

2. Extra Hepatic cholestatis: 0.8 (normal or slightly decreased).

GOOD PROGNOSTIC SIGN 0.3 - 0.6	
POOR PROGNOSTIC SIGN 1.2 - 1.6	



DR.VINAY CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY & MICROBIOLOGY) V DR.YUGAM CHOPRA CONSULTANT PATHOLOGIST MBBS, MD (PATHOLOGY)

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by CALCULATED

INTERPRETATION:

To differentiate between pre- and post renal azotemia.

INCREASED RATIO (>20:1) WITH NORMAL CREATININE:

1. Prerenal azotemia (BUN rises without increase in creatinine) e.g. heart failure, salt depletion, dehydration, blood loss) due to decreased glomerular filtration rate.

2. Catabolic states with increased tissue breakdown.



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		Dr. Vinay Chopra MD (Pathology & Micro Chairman & Consultan	obiology)		Igam Chopra MD (Pathology) ultant Pathologist	
NAME	: Mr. RAKE	SH RAGTOGI				
GE/ GENDER	: 68 YRS/M	ALE]	PATIENT ID	: 1578999	
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REFERRED BY				REGISTRATION DA		8 ΔM
BARCODE NO.	:01514978			COLLECTION DATE	: 13/Aug/2024 11:0	
					0	
CLIENT CODE.		NOSTIC LAB		REPORTING DATE	: 13/Aug/2024 10:1	IAM
CLIENT ADDRESS	: 6349/1, N	ICHOLSON ROAD, AMBA	ALA CANTT			
Test Name			Value	Unit	Biological	Reference interval
5. Inherited hyperam 7. SIADH (syndrome o 3. Pregnancy. DECREASED RATIO (<	10:1) WITH DE rosis. end starvation. ecreased urea (urea rather ti imonemias (u of inappropiat 10:1) WITH IN	CREASED BUN : synthesis. han creatinine diffuses o rea is virtually absent in l e antidiuretic harmone) o CREASED CREATININE:	blood). due to tubula	ar secretion of urea.		
 Phenacimide thera Rhabdomyolysis (r Muscular patients NAPPROPIATE RATIO Diabetic ketoacido should produce an in 	apy (accelerate eleases musc who develop : sis (acetoace creased BUN/ rapy (interfere	es conversion of creatine le creatinine). renal failure. tate causes false increase (creatinine ratio). es with creatinine measur	e in creatinin		odologies,resulting in norma	al ratio when dehydration
CKD STAGE		DESCRIPTION	GFR (m	L/min/1.73m2)	ASSOCIATED FINDINGS	1
G1	Ν	lormal kidney function		>90	No proteinuria]
G2		Kidney damage with		>90	Presence of Protein,	
G3a		normal or high GFR Mild decrease in GFR		60 - 89	Albumin or cast in urine	4
0.00	· · ·			00 07		4

G3b

G4

G5

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Moderate decrease in GFR

Severe decrease in GFR

Kidney failure

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30-59

15-29

<15









	Dr. Vinay Chopra MD (Pathology & Microbio Chairman & Consultant Pa	logy) MD	n Chopra 9 (Pathology) t Pathologist
NAME	: Mr. RAKESH RAGTOGI		
AGE/ GENDER	: 68 YRS/MALE	PATIENT ID	: 1578999
COLLECTED BY	:	REG. NO./LAB NO.	: 012408130009
REFERRED BY	:	REGISTRATION DATE	: 13/Aug/2024 08:38 AM
BARCODE NO.	: 01514978	COLLECTION DATE	: 13/Aug/2024 11:08AM
CLIENT CODE.	: KOS DIAGNOSTIC LAB	REPORTING DATE	: 13/Aug/2024 10:11AM
CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA	CANTT	
Test Name	Val	ue Unit	Biological Reference interval

COMMENTS:

Estimated Glomerular filtration rate (eGFR) is the sum of filtration rates in all functioning nephrons and so an estimation of the GFR provides a measure of functioning nephrons of the kidney.
 eGFR calculated using the 2009 CKD-EPI creatinine equation and GFR category reported as per KDIGO guideline 2012
 In patients, with eGFR creatinine between 45-59 ml/min/1.73 m2 (G3) and without any marker of Kidney damage, It is recommended to measure of CFD with the commended to measure

3. In patients, with eGFR cleaning between 45-59 minimit 1.73 m2 (G3) and without any marker of Kidney damage, it is recommended to measure eGFR with Cystatin C for confirmation of CKD
4. eGFR category G1 OR G2 does not fulfill the criteria for CKD, in the absence of evidence of Kidney Damage
5. In a suspected case of Acute Kidney Injury (AKI), measurement of eGFR should be done after 48-96 hours of any Intervention or procedure
6. eGFR calculated by Serum Creatinine may be less accurate due to certain factors like Race, Muscle Mass, Diet, Certain Drugs. In such cases, eGFR should be calculated using Serum Cystatin C
7. A decrease in eGFR implies either progressive renal disease, or a reversible process causing decreased nephron function (eg, severe dehydration).

ADVICE:

KDIGO guideline, 2012 recommends Chronic Kidney Disease (CKD) should be classified based on cause, eGFR category and Albuminuria (ACR) category. GFR & ACR category combined together reflect risk of progression and helps Clinician to identify the individual who are progressing at more rapid rate than anticipated

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IAME :				Pathologist
	: Mr. RAKESH RAGTOGI			
AGE/ GENDER	: 68 YRS/MALE	J	PATIENT ID	: 1578999
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Test Name		Value	Unit	Biological Reference interval
		ENDOCF	RINOLOGY	
	THYR		TION TEST: TOTAL	
TRIIODOTHYRONINE (1 by CMIA (CHEMILUMINES	T3): SERUM CENT MICROPARTICLE IMMUNOASSAY)	0.847	ng/mL	0.35 - 1.93
THYROXINE (T4): SERU by CMIA (CHEMILUMINES	M CENT MICROPARTICLE IMMUNOASSAY)	5.9	μgm/dL	4.87 - 12.60
by CMIA (CHEMILUMINES	G HORMONE (TSH): SERUM	2.712	μIU/mL	0.35 - 5.50
3rd GENERATION, ULTRA INTERPRETATION:	SENSITIVE			

overproduction(hyperthyroidism) of 14	and/or 13.		
CLINICAL CONDITION	T3	T4	TSH
Primary Hypothyroidism:	Reduced	Reduced	Increased (Significantly)
Subclinical Hypothyroidism:	Normal or Low Normal	Normal or Low Normal	High
Primary Hyperthyroidism:	Increased	Increased	Reduced (at times undetectable)
Subclinical Hyperthyroidism:	Normal or High Normal	Normal or High Normal	Reduced

LIMITATIONS:-

1. T3 and T4 circulates in reversibly bound form with Thyroid binding globulins (TBG), and to a lesser extent albumin and Thyroid binding Pre Albumin so conditions in which TBG and protein levels alter such as pregnancy, excess estrogens, androgens, anabolic steroids and glucocorticoids may falsely affect the T3 and T4 levels and may cause false thyroid values for thyroid function tests.

2. Normal levels of T4 can also be seen in Hyperthyroid patients with :T3 Thyrotoxicosis, Decreased binding capacity due to hypoproteinemia or ingestion of certain drugs (eg: phenytoin , salicylates).

3. Serum T4 levles in neonates and infants are higher than values in the normal adult , due to the increased concentration of TBG in neonate serum.

4. TSH may be normal in central hypothyroidism, recent rapid correction of hyperthyroidism or hypothroidism, pregnancy, phenytoin therapy.

TRIIODOTHYRONINE (T3)		THYROXINE (T4)		THYROID STIMULATING HORMONE (TSH)	
Age	Refferance Range (ng/mL)	Age	Refferance Range (µg/dL)	Age	Reference Range (μIU/mL)
0-7 Days	0.20 - 2.65	0 - 7 Days	5.90 - 18.58	0 - 7 Days	2.43 - 24.3
7 Days - 3 Months	0.36 - 2.59	7 Days - 3 Months	6.39 - 17.66	7 Days - 3 Months	0.58 - 11.00
3 - 6 Months	0.51 - 2.52	3 - 6 Months	6.75 - 17.04	3 Days – 6 Months	0.70 - 8.40





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TEST PERFORMED AT KOS DIAGNOSTIC LAB, AMBALA CANTT





	Dr. Vinay Chopra MD (Pathology & Microbiol Chairman & Consultant Pat		(Pathology)
NAME	: Mr. RAKESH RAGTOGI		
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CLIENT ADDRESS	: 6349/1, NICHOLSON ROAD, AMBALA (CANTT	

Test Name			Value	Unit	t	Biological Reference interva
6 - 12 Months	0.74 - 2.40	6 - 12 Months	7.10 - 16.16	6 - 12 Months	0.70 - 7.00	
1 - 10 Years	0.92 - 2.28	1 - 10 Years	6.00 - 13.80	1 – 10 Years	0.60 - 5.50	
11- 19 Years	0.35 - 1.93	11 - 19 Years	4.87- 13.20	11 – 19 Years	0.50 - 5.50	
> 20 years (Adults)	0.35 - 1.93	> 20 Years (Adults)	4.87 - 12.60	> 20 Years (Adults)	0.35- 5.50	
	RECO	OMMENDATIONS OF TSH L	EVELS DURING PRE	GNANCY (µIU/mL)		
1st Trimester		0.10 - 2.50				
	2nd Trimester		0.20 - 3.00			
	3rd Trimester			0.30 - 4.10		

INCREASED TSH LEVELS:

1.Primary or untreated hypothyroidism may vary from 3 times to more than 100 times normal depending upon degree of hypofunction.

2.Hypothyroid patients receiving insufficient thyroid replacement therapy.

3.Hashimotos thyroiditis

4.DRUGS: Amphetamines, idonie containing agents & dopamine antagonist.

5.Neonatal period, increase in 1st 2-3 days of life due to post-natal surge

DECREASED TSH LEVELS:

1.Toxic multi-nodular goitre & Thyroiditis.

2. Over replacement of thyroid harmone in treatment of hypothyroidism.

3. Autonomously functioning Thyroid adenoma

4.Secondary pituatary or hypothalmic hypothyroidism

5. Acute psychiatric illness

6.Severe dehydration.

7.DRUGS: Glucocorticoids, Dopamine, Levodopa, T4 replacement therapy, Anti-thyroid drugs for thyrotoxicosis.

8.Pregnancy: 1st and 2nd Trimester





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	Dr. Vinay Cho MD (Pathology & Chairman & Cons				
NAME AGE/ GENDER COLLECTED BY REFERRED BY BARCODE NO. CLIENT CODE. CLIENT ADDRESS	: Mr. RAKESH RAGTOGI : 68 YRS/MALE : : : 01514978 : KOS DIAGNOSTIC LAB : 6349/1, NICHOLSON ROAD, A	REGIST COLLEC REPORT	T ID D./LAB NO. RATION DATE TION DATE FING DATE	: 1578999 : 012408130009 : 13/Aug/2024 08:38 AM : 13/Aug/2024 11:08AM : 13/Aug/2024 09:51AM	
Test Name		Value	Unit	Biological Reference interval	
PHYSICAL EXAMINA		CLINICAL PATHO		TION	
QUANTITY RECIEVEI by DIP STICK/REFLEC COLOUR by DIP STICK/REFLEC TRANSPARANCY by DIP STICK/REFLEC SPECIFIC GRAVITY	D STANCE SPECTROPHOTOMETRY STANCE SPECTROPHOTOMETRY STANCE SPECTROPHOTOMETRY	10 AMBER YELLOW CLEAR <=1.005	ml	PALE YELLOW CLEAR 1.002 - 1.030	
REACTION by DIP STICK/REFLEC PROTEIN by DIP STICK/REFLEC SUGAR by DIP STICK/REFLEC PH by DIP STICK/REFLEC BILIRUBIN by DIP STICK/REFLEC NITRITE	TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	ACIDIC Negative Negative 5.5 Negative Negative		NEGATIVE (-ve) NEGATIVE (-ve) 5.0 - 7.5 NEGATIVE (-ve) NEGATIVE (-ve)	
UROBILINOGEN by DIP STICK/REFLEC KETONE BODIES by DIP STICK/REFLEC BLOOD by DIP STICK/REFLEC ASCORBIC ACID	TANCE SPECTROPHOTOMETRY. TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY TANCE SPECTROPHOTOMETRY	Normal Negative Negative NEGATIVE (-ve)	EU/dL	0.2 - 1.0 NEGATIVE (-ve) NEGATIVE (-ve) NEGATIVE (-ve)	

MICROSCOPIC EXAMINATION



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Dr. Vinay Chopra MD (Pathology & Microbiology) Chairman & Consultant Pathologist

Dr. Yugam Chopra MD (Pathology) CEO & Consultant Pathologist

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Test Name		Value	Unit	Biological Reference interval
RED BLOOD CELLS (F	RBCs) CENTRIFUGED URINARY SEDIMENT	NEGATIVE (-ve)	/HPF	0 - 3
PUS CELLS	CENTRIFUGED URINARY SEDIMENT	3-4	/HPF	0 - 5
	JENTRIFUGED URINART SEDIMENT			

PUS CELLS	3-4	/HPF	0 - 5
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
EPITHELIAL CELLS	1-2	/HPF	ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
CRYSTALS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
CASTS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
BACTERIA	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
OTHERS	NEGATIVE (-ve)		NEGATIVE (-ve)
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			
TRICHOMONAS VAGINALIS (PROTOZOA)	ABSENT		ABSENT
by MICROSCOPY ON CENTRIFUGED URINARY SEDIMENT			

End Of Report



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